

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph [0002] on page 1 of the specification as follows.

[0002] The invention generally relates to a method for generating images in computed tomography with the aid of 3D image reconstruction method. For example, it relates to one wherein, in order to scan an examination object with the aid of a conical beam emanating from a focus and the aid of a two-dimensional, planar, preferably multirow, detector for detecting the beam, the focus is moved on a spiral focal track about the examination object. The detector supplies output data, that correspond to the detected radiation, and image voxels from the scanned examination object are reconstructed from the possibly preprocessed output data and reproduce the attenuation coefficients of the respective voxel.

Please amend the paragraph [0017] on page 5 of the specification as follows.

[0017] In accordance with this basic idea, in an embodiment of the invention the inventors propose the following method for generating images in computed tomography with the aid of a 3D image reconstruction method that has at least the following method steps:

- in order to scan an examination object with the aid of a conical beam emanating from a focus and the aid of a two-dimensional, planar, preferably multirow, detector for detecting the beam, the focus is moved on a spiral focal track about the examination object, the detector supplying output data, that correspond to the detected radiation, and
- image voxels from the scanned examination object are reconstructed from the possibly preprocessed output data and reproduce the attenuation coefficients of the respective voxel,
- each image voxel being reconstructed separately from projection data that comprise a projection angular range of at least 180°, and

- an approximate weighting taking place for each voxel considered in order to normalize the projection data used relating to the voxel.

Please amend the paragraph [0024] on page 7 of the specification as follows.

[0024] In accordance with at least one embodiment of the invention, the inventors also propose a CT unit for scanning an examination object that is provided with a detector array that is of planar design and has a multiplicity of distributed detector elements for detecting the rays of the beam from at least one focus, the at least one focus being movable relative to the examination object on at least one focal track that runs around the examination object and a detector array situated opposite, at least a device/method for collecting detector data, filtering and 3D back projection being provided, and a device/method for processing the measured data being fashioned in such a way that the method according to at least one embodiment of the invention as outlined above can be carried out. The functional aspects are preferably implemented at least partially by programs or program modules.